

Areeb Jamal

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EDUCATION

McMaster University

Bachelor of Computer Engineering and Management

Hamilton, ON

Sept. 2020 – Apr. 2025

- **GPA:** Currently at a **3.8** GPA and recognized in the top **15%** of the program.
- **Achievements:** 3x McMaster Honor Award Recipient | 3x Dean's Honor List

SKILLS

Programming: C, C++, Python, Java, Verilog, HTML, CSS, MATLAB, R

Software: Microsoft Office, Git, Quartus II, Kiel, WaveForms, Simulink, RStudio, LTSpice, Quanser, AutoCAD

Hardware: Oscilloscope, Analog Discovery 2, TI MSP 430, Raspberry Pi, Arduino, Rectifiers, Amplifiers

WORK EXPERIENCE

Wireless Network Operations Intern

May 2023 – Aug. 2023

Bell Canada

Scarborough, ON

- Launched numerous capital projects across the GTHA alongside **500+** cell sites responsible for efficiently delivering quality fiber and cellular networks to customers.
- Incorporated **rectifiers** alongside **amplifiers** to optimize electric signal strength from AC to DC voltage to optimize site power consumption by **15%**.

Radio Frequency Network Engineer Intern

May 2022 – Aug. 2022

Ericsson Canada Inc

Mississauga, ON

- Monitored a variety of radio frequency signals and bands for **300+** sites across the city of Jacksonville remotely and generated detailed site summaries for customers.
- Analyzed **KPIs** to further optimize radio network performance and power consumption which boosted the efficiency of available network resources by **24%**.
- Assisted in the development of a **Python** script that generated summary reports autonomously which removed excessive manual labor and improved productivity.

Associate

Aug. 2020 – Nov. 2020

Genzup

Brampton, ON

- Communicated and collaborated with external organizations to further satisfy clients' needs.
- Coordinated the design team to generate social media layouts and company growth strategies which increased virtual outreach by **70** users a month.

PROJECTS

Interactive LED Smart Mirror

Jul. 2023 – Present

- Designing and prototyping a digitally interactive 2-way mirror using an **Arduino**.

Spatial LiDAR-Based 3D Hallway Mapping System

Jan. 2023 – Apr. 2023

- Implemented a **C++** program for configuring digital I/O pins on a MSP 430 microcontroller through **I2C** and **UART** communication for reading **LiDAR** sensor data to map a 3D hallway.
- Developed a **Python** script to visualize time-of-flight sensor measurement data in a 3D graphical representation using the comprehensive **matplotlib** library.

Infrastructure for Self-Driving Vehicles

Jan. 2022 – Apr. 2022

- Managed a multidisciplinary team to design and simulate a highway infrastructure using **Python** which allows self-driven vehicles and human-driven vehicles to efficiently integrate.

Automated System for Recycling Containers

Jan. 2021 – Mar. 2021

- Created a computer program in **Python** using a **Raspberry Pi** that used a muscle sensor emulator to control a robotic arm. The robot recycled containers in a dynamic simulation on **Quanser Interactive Labs**.

EXTRACURRICULAR

Vice President of Supportive Relations

Aug. 2023 – Present

DeltaHacks X

Hamilton, ON

- Networked with **25+** industry professionals to judge and mentor a **400+** attendee hackathon at McMaster.

Outreach Lead

May 2023 – Present

McMaster Design League

Hamilton, ON

- Organized the annual UI/UX designathon and CAD designathon with around **340** registered participants each.
- Supported the outreach team to obtain mentors, judges, and speakers to attend both designathons.